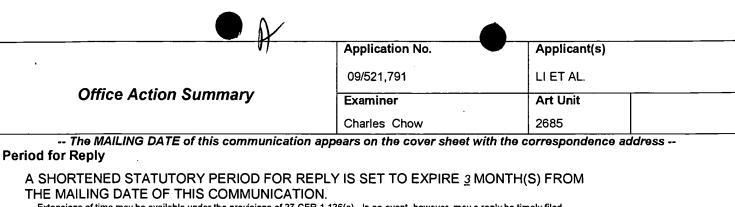


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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. LUT-2-0035 3014 09/521,791 03/09/2000 Chia-Chang Li 7590 06/18/2003 Richard J Minnich Esq EXAMINER Fay Sharpe Fagan Minnich & McKee LLP CHOW, CHARLES CHIANG 1100 Superior Avenue Seventh Floor ART UNIT PAPER NUMBER Cleveland, OH 44114 2685 DATE MAILED: 06/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1 Interview Summary (PTO-413) Paper No(s) Notice of Braftsperson's Patent Drawing Review (PTO-948)	refloc for Reply
Failure to reply within the set or extended priced for reply wills, by statute, cause the application to become ABANDONED (28 U.S.C. § 13), Any reply received by the Office later than trore mornts after the malling date of this communication, even if simely filed, may reduce any counter that term adjustment. See 37 CFR 1.74(b). Status	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
seamed platent term adjustment. See 37 CFR 1.704(b). Status 1)	- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 24 April 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 Q.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are enjoint is/are withdrawn from consideration. 5) Claim(s) 1-20 is/are allowed. 6) Claim(s) 1-20 is/are allowed. 7) Claim(s) is/are objected to. 8) Claim(s) 1-20 is/are objected to by the Examiner. 10) The drawing(s) filed on is/are: a) cocepted or b objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) cocepted or b objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The proposed drawing correction filed on is: a) approved by disapproved by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1	earned patent term adjustment. See 37 CFR 1.704(b).
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Art Unit: 2685

Office Action for Applicant's Amendment (4/24/2003)

- 1. It is acknowledged that the amended abstract is entered.
- 2. Regarding applicant's amendment for the no teaching for: the database having identification data to facilitate communication through one of the first and a second communication channels; the reference Raffel-'629 is not proper due to lack of cable network for the residential base station,

Regarding a database having identification data to facilitate communication through one of the first and a second communication channel, Raffel-'629 teaches the mobile station for handoff between residential base station 10 and public base station 18 and the wired connection 14 from the residential base station 10 to PSTN 15 via the post (col. 4, lines 46-57, Fig. 2, Fig. 1; col. 10, lines 55-60; col. 11, lines 32-46; col. 11, lines 55-60).

Raffel teaches the mobile station 12 has storage structure in EEPROM for storing extended residential system identifier RSID to communication with residential, personal, base station 10 using a first channel from f₀-f₃, as shown in Fig. 6, col. 18, line 58 to col. 19, line 36).

Raffel teaches (as shown in Fig. 6, col. 20, line 39 to col. 21, line 15) the mobile station 12 also has storage structure for extended public service profile for communication with public base station using a second digital control channel, DCCH, analog control channel ACCH.

Regarding Raffel-'629 lacks the cable network connection for the residential base station,
Raffel does teaches the cable wired connection 14 from the residential base station 10 to
PSTN 15 via the post (as shown in Fig. 2 col. 10, lines 55-60; col. 11, lines 32-46; col. 11,

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lines 55-60). Therefore, Raffel does teach the cable wired connection for the home residential base station 10, for the combination to reference Hamilton-Piercy.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamilton-Piercy et al. (US 5,809,395) in view or Raffel et al. (US 5,675,629).

Regarding **claim 1**, Hamilton-Piercy discloses a system for integrating a wireless communication (comm.) network (a public mobile system integrated with the Optically-Connected-Microcell-Base station OCMBS 210, and the OCMSs, having fiber cable 209 connections to the hub/headend radio base equipment RBSE, abstract, figure in cover page, Fig. 1-14, col. 11, line 65; col. 1, lines 10-17; summary of invention).

Hamilton-piercy discloses the system including at least one public base station (the other radio base station RBS sites connected to the MTSO 200 via microwave link 203) with a cable comm. network (fiber 209) including at least one of a distribution hub and a head end (the radio base station microcell optical equipment RBSMOE, as the hub distributing network equipment for distributing the analog/digital signal to the headend RBSMCE to the fiber cable 209, figure in cover page).

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Hamilton-Piercy discloses the headend or hub (in Fig. 1) is connected to the wireless comm. network MSTO 200 for providing the telephone service from mobile 206.

Hamilton-Piercy discloses the distribution network being defined including the wireless comm. network (the other RBS sites using microwave link 203) and the cable comm. network (the OCMBS subsystem, the RBSE, in Fig. 1), such that the mobile 206 could be handed off to a better base station of site which could have better voice quality (col. 11, lines 36-54).

Hamilton-Piercy discloses a personal base station system (OCMBS system connected to fiber cable 209, figure in cover page) operative to manage and process analog comm. signal and provides a digital network interface to the distribution network (analog or digital interfaces in Fig. 2, in the RBSE distribution network). The personal base station (OCMBS 238, Fig. 2) includes the interface 121 for interfacing to the fiber plant 232 (Fig. 2, col. 16, lines 29-38)

Hamilton-Piercy discloses a handset unit (mobile 206) operative to select one of a first comm. channel through the personal base station (OCMBS) via air interface provided by the interface unit (in col. 16, lines 29-38), and a second comm. channel for comm. through the at least one public base station (other RBS sites, 203) as shown in col. 7, line 42 to col. 8, line 9; col. 11, lines 36-54. The mobile 206 could select second new channel frequency set from neighboring public RBS site 207, when the quality of the first channel of the personal-OCMBS 205 is degraded. Beside, in below, Raffel also teaches the mobile station 12 could select the channel for comm. with personal cordless-cellular base station 10, and also mobile

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station 12 could also select channel to comm. with the public cell network's base station 18 (Fig. 1, col. 10, line 51 to col. 11, line 17).

Hamilton-Piercy does not clearly indicate the details for the data base in one of the cable

network (microcell OCMBS) and the wireless network (radio base station 205), could include the identification data for communication through the first and second channels. Raffel teaches the system comprises the mobile station 12 (fig. 1) in comm. with cordless cell base station CCBS 10 in residence area and also in comm. with the public cellular network having the cellular base station 18 (Fig. 1-6; col. 10, line 51 to col. 11, line 17). The cellular network downloads, from database, the parameters to CCBS 10 having the Public system SID, the residential RSID, the list of authorized frequencies, to identify the resources used by the comm. channels (col. 23, line 60 to col. 24, line 33). The mobile station 12 also stores the RSID, SID, operating channel 88 in the table 78 (col. 8, line 59 to col. 9, line 5; col. 19, lines 28-53; col. 20, lines 40-52; col. 23, line 60 to col. 24, line 29). Raffel also teaches the handoff procedure, base on the stored RSID, SID, when mobile moves to the close range of the residential cordless-cellular-base-station CCBS 10 (abstract). Raffel teaches when the mobile 12 is outside residence CCBS 10's coverage area to deregister from the CCBS 10 using handoff procedure (col. 4, lines 46-57; col. 40, lines 29-39; col. 11, lines 52-55; col. 40, lines 29-39; col. 56, line 48). Raffel provides the detailed solution for downloading, from database, the RSID, SID, operating frequency 88, to CCBS 10, and also mobile 12 for storing the above parameters, such that the parameters could be retrieved for convenient registration dynamically. It would be obvious to include Raffel's

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downloading the RSID, SID and the operating frequency 88, to CCBS 10, such that the mobile 12 could store and retrieve them for conveniently, dynamic registration. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify and add Raffel's downloaded the RSID, SID and operating frequency 88 to CCBS 10, for storing and retrieving, to Hamilton-Piercy, such that the system could be upgraded for convenient, dynamic, registration by retrieving the stored information for RSID, SID, and the operating channel.

Regarding claims 2, 3, Hamilton-Piercy discloses the transmit signal, and the receive/ transmit analog signal over fiber cable 209, as shown above, using the analog/digital interface in the OCMBS.

Regarding claim 4, Hamilton-Piercy has shown above the modules in the RBSE hub/headend could receive the analog and transmit corresponding digital, as shown above in Fig. 2, the analog or digital interface between digital multiplexer 222 and the radio transceiver 220.

Regarding claim 5, as shown above, Raffel has shown above the mobile 12 handset for storing the RSID, SID, in table 78 database.

Regarding **claim 6**, Hamilton-Piercy has shown above the handoff, from RBS 205 to RBS 207, is based upon the MSTO's signal strength measurements when mobile 206 is close to 207 (col. 11, lines 29-35, shown in claim 1). Raffel has shown above the mobile 12 could comm. with both the public base station 18 or the residence CCBS 10, using stored operating channel 88, as shown above in claim 1.

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Regarding claim 7, Raffel has shown when the mobile 12 is outside the CCBS 10's coverage area, when residential CCBS 10 is not operative due to received weak signal, mobile 12 deregisters from CCBS 10 and registers to the cellular base station 18, as shown above.

Regarding claim 8, Raffel has shown above the identification data related to the registration, origination, the termination, and the handoff procedures.

4. Claims 9-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamilton-Piercy in view or Raffel.

Regarding **claim 9**, referring to the examiner's comment in claim 1 above, for a system integrated with public base station, distribution hub, headend, being defined to include wireless network and cable network; the personal base station RBS/OCMBS, residential CCBS 10; the handset mobile 206, mobile 12; the database for downloading RSDI, SID, operating frequencies 88, through one of the first and second comm. channels.

Regarding **claim 10**, referring to the examiner's comment for Hamilton-Piercy for the antenna 18 of the OCMBS in Fig. 2.

Regarding claim 11, referring to the examiner's comment for Hamilton-Piercy for the interface for frequency conversion connected to HFC link (the frequency translators 56, 77 in Fig. 4, the translator 34, 81-83 in Fig. 5).

Regarding claim 12, referring to the examiner's comment for Hamilton-Piercy in Fig. 4, for the micro processor 31 for controlling the frequency conversion in 56 for air interface to antenna 18 via amplifier 10, duplexer 17.

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Regarding **claims 13, 18**, referring to the examiner's comment for Hamilton-Piercy for the modulator/demodulator in Fig. 4, items 56, 67, and the equalizer for group delay (col. 21, lines 7-12). Raffel considered the word error (col. 5, line 60 to col. 6, line 6) and Codec (col. 39, lines 48-54).

Regarding **claim 14**, referring to the examiner's comment for Hamilton-Piercy for the available bandwidth (col. 16, lines 44-52) and VCO tuning in the translator (col. 23, lines 37-67).

Regarding claims 15, 19, referring to the examiner's comment in claims 1, 8 above, for the registration, the origination, the termination and the handoff process procedure.

Regarding **claim 16**, referring to the examiner's comment in claim 1 above for the for the system integrated with public base station, distribution hub, headend, being defined to include wireless network and cable network; the personal base station RBS/OCMBS, residential CCBS 10; the handset mobile 206, mobile 12; and the database.

Regarding **claim 17**, referring to the examiner's comment in claims 1, 10 above for the antenna of the radio subsystem.

Regarding **claim 20**, referring to the examiner's comment in claims 1, 6, 7 above for the method for providing a first channel through personal base station connected to cable network; the second channel through public base station; the selection of the first or second cannel by handset is based on proximity of the handset to the personal base station, residential CCBS 10 or OCMBS site.

Response to Arguments
And
Conclusion

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5. Applicant's arguments filed 4/24/2003 have been fully considered but they are not persuasive.

Regarding applicant's argument for the no teaching for: the database having identification data to facilitate communication through one of the first and a second communication channels; the reference Raffel-'629 is not proper due to lack of cable network for the residential base station,

Raffel-'629 teaches the mobile station for handoff between residential base station 10 and public base station 18 and the wired connection 14 from the residential base station 10 to PSTN 15 via the post (col. 4, lines 46-57, Fig. 2, Fig. 1; col. 10, lines 55-60; col. 11, lines 32-46; col. 11, lines 55-60).

Raffel teaches the mobile station 12 has storage structure in EEPROM for storing extended residential system identifier RSID to communication with residential, personal, base station 10 using a first channel from f₀-f₃, as shown in Fig. 6, col. 18, line 58 to col. 19, line 36). Raffel teaches (as shown in Fig. 6, col. 20, line 39 to col. 21, line 15) the mobile station 12 also has storage structure for extended public service profile for communication with public base station using a second digital control channel, DCCH, analog control channel ACCH.

Regarding Raffel-'629 lacks the cable network connection for the residential base station, Raffel does teaches the cable wired connection 14 from the residential base station 10 to PSTN 15 via the post (as shown in Fig. 2 col. 10, lines 55-60; col. 11, lines 32-46; col. 11, lines 55-60). Therefore, Raffel does teach the cable wired connection for the home residential base station 10, for the combination to reference Hamilton-Piercy.

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In view of the above disclosures, claims 1-20 are remaining in the rejection manner.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Chow whose telephone number is (703)-306-5615.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Hunter, can be reached at (703)-308-6732.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to: (703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Charles Chow

June 16, 2003.